

Message Text

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PASS TO R. GOECKERMANN

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TAGS: TECH, ENRGY

SUBJECT:US/BRAZIL NON-NUCLEAR ENERGY R&D COOPERATION

1. DOE PROGRAM MANAGERS HAVE MET TO REVIEW THE
PRESIDENT'S INITIATIVE WITH THE BRAZILIANS FOR
COOPERATION ON NON-NUCLEAR ENERGY TECHNOLOGIES (COAL
MINING, PROCESSING, AND CONVERSION:PRODUCTION OF ALCOHOL
FROM BIOMASS AND INDUSTRIAL AND TRANSPORTATION
CONSERVATION). THE MANAGERS WERE BRIEFED ON THE
DISCUSSIONS HELD WITH THE BRAZILIANS IN MID-MARCH, 1978.

2. THE DOE PROGRAM MANAGERS HAVE AGREED ON THE
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FOLLOWING POINTS:

A. THE DEVELOPMENT OF COOPERATION PROGRAMS IN THE ABOVE
AREAS WILL HAVE TO BE MADE DURING MEETINGS OF EXPERTS
FROM THE TWO COUNTRIES.

B. BEFORE ARRANGING FOR THESE MEETINGS, THE MANAGERS

NEED ANSWERS TO THE QUESTIONS LISTED UNDER ITEM 5 OF THIS CABLE TO ASSIST THEM IN EVALUATING THE BRAZILIAN EFFORTS IN THE ABOVE AREAS, AND IN DEVELOPING SPECIFIC

PROPOSALS FOR COOPERATION. DOE WOULD BE WILLING TO ANSWER ANY SIMILAR QUESTIONS THE BRAZILIANS MAY HAVE IN THE ABOVE AREAS.

C. SINCE THE BRAZILIANS WOULD BENEFIT THE MOST FROM COOPERATION ON COAL MINING, PROCESSING AND CONVERSION, DOE IS INTERESTED IN INCLUDING SHALE OIL WHERE THE US MAY GET SOME BENEFITS FROM THE BRAZILIANS. PLEASE FIND OUT WHETHER THE BRAZILIANS WOULD BE RECEPTIVE TO SUCH A PROPOSAL

D. THE US SHOULD AIM AT HOLDING THE MEETINGS OF EXPERTS BEFORE THE END OF JUNE, 1978.

E) DOE PROPOSES THAT MEETINGS OF EXPERTS ON COAL MINING, COAL PROCESSING, AND SHALE OIL BE HELD IN BRAZIL AND THOSE ON BIOMASS, COAL CONVERSION, INDUSTRIAL AND TRANSPORTATION CONSERVATION BE HELD IN WASHINGTON, D.C.

3. PLEASE PROVIDE NAMES OF BRAZILIAN OFFICIAL CONTACTS IN THE AREAS OF COAL MINING, COAL PROCESSING, COAL CONVERSION, SHALE OIL, ALCOHOL PRODUCTION FROM BIOMASS, UNCLASSIFIED

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INDUSTRIAL CONSERVATION, AND TRANSPORTATION CONSERVATION. NAMES OF US/DOE OFFICIAL CONTACTS ARE LISTED AT END OF CABLE.

4. IN CONNECTION WITH BIOMASS, DOE WOULD LIKE TO INVITE A BRAZILIAN TEAM TO ATTEND A REVIEW OF DOE FERMENTATION PROGRAMS TO BE HELD ON JUNE 20-23, 1978 AT THE RENSSELAER POLYTECHNIC INSTITUTE IN TROY, NEW YORK. THE TOTAL FUELS FROM THE BIOMASS PROGRAM WILL BE REVIEWED, AND HENCE, IT WOULD BE AN EXCELLENT OPPORTUNITY FOR THE BRAZILIANS TO GET ACQUAINTED WITH THE US BIOMASS PROGRAM. DOE PROPOSES THAT THE BRAZILIAN TEAM INCLUDE EXPERTS ON ALCOHOL UTILIZATION WHO COULD BENEFIT FROM THIS COMPREHENSIVE REVIEW. DOE WOULD ALLOCATE MONDAY AND TUESDAY, THE 26TH AND 27TH FOR MEETINGS BETWEEN THE US/BRAZILIAN EXPERTS TO DEFINE A COOPERATIVE PROGRAM IN THE AREA OF BIOMASS AND ALCOHOL UTILIZATION.

MORE INFORMATION ON THE JUNE 20-23 PROGRAM REVIEW MEETING WILL BE SENT TO THE EMBASSY.

5. THE QUESTIONS RAISED BY THE DOE PROGRAM MANAGERS ARE

LISTED BELOW. PLEASE PROVIDE ANSWERS TO THESE
QUESTIONS AT YOUR EARLIEST CONVENIENCE.

A) SOLID FUELS

I. DESIRED INFORMATION ON BRAZIL'S MINING TECHNIQUES

1. IS THERE A SINGLE ORGANIZATIONAL POINT OF CONTACT
IN BRAZIL WITH WHOM TO DISCUSS PROGRAM ISSUES (AND IF
SO WE WOULD LIKE SOME BACKGROUND ON IT)?

2. WHAT ADDITIONAL INFORMATION IS AVAILABLE ON THE
BRAZILIANS' INTERESTS IN THE MINING/PREPARATION AREA --
SURFACE OR UNDERGROUND, HARDWARE OR SOFTWARE, THICK
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OR THIN SEAM, FINE COAL OR COARSE COAL CLEANING, ETC?

II. QUESTIONS PERTAINING TO COAL LIQUEFACTION PROCESS:

1. WHAT TYPES OF COALS ARE AVAILABLE IN BRAZIL WHICH
COULD BE USED FOR CONVERSION BY LIQUEFACTION? PLEASE
PROVIDE TYPICAL ANALYSES OF SOME.

2. COULD BRAZIL USE SAMPLES OF SOLVENT REFINED COAL
(SRC) FOR PRELIMINARY TESTS AS A COKING BINDER. HOW
MUCH MATERIAL WILL BE REQUIRED FOR THAT PURPOSE?

III. DESIRED DATA ON BRAZIL OIL-SHALE PROCESS.

1. IS THERE ANY RECENT INFORMATION ON BRAZIL'S OIL
SHALE PROCESS SUBSEQUENT TO MAY 1977 AND WHICH
INCLUDES DATA ON AVERAGE DAILY THROUGHPUT RATES,
PEAK RATES ACHIEVED, GRADE OF OIL SHALE, COMPOSITION
OF SHALE OIL AND RETORT OFF-GASES, AND APPROXIMATE
NORMAL RETORTING TEMPERATURE.

2. DATA ON ENVIRONMENTAL STUDIES INCLUDING INFORMATION
ON DISPOSAL AND COMPOSITION OF SPENT OIL SHALE.

3. ANY DATA ON PETROBRAS' EXPERIENCE IN BLENDING THIS
SHALE OIL WITH OTHER PETROLEUM AS REFINERY FEEDSTOCK, AND
ON SUCH REFINERY PRODUCTS.

B. INDUSTRIAL ENERGY CONSERVATION

1. WHAT ARE THE MAJOR INDUSTRIES OF BRAZIL (BASED ON
DOLLARS OF OUTPUT OR APPROPRIATE MEASUREMENT SUCH AS
TONS, ETC.)?

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2. WHAT INDUSTRIES ARE THE BRAZILIANS INTERESTED IN FROM AN ENERGY CONSERVATION STANDPOINT?

3. WHAT IS THE ANNUAL ENERGY CONSUMPTION IN THOSE INDUSTRIES?

4. WHAT IS THE ENERGY TYPE CONSUMED AND WHAT IS THE AMOUNT OF THE CONSUMPTION OR PERCENTAGE OF THE TOTAL CONSUMED.

5. WHAT ARE THE MAJOR PROCESS STEPS PERFORMED IN PRODUCTION AND WHAT IS THE ENERGY CONSUMED AT THESE STEPS (FORM AND AMOUNT)?

6. ARE THERE ANY CONSERVATION PROGRAMS UNDERWAY IN THESE INDUSTRIES? IF SO, PLEASE PROVIDE A DESCRIPTION OF THE PROJECT, ITS STATUS, AND EXPECTED ENERGY SAVINGS?

7. HOW CAN THE US HELP BRAZIL IN THESE INDUSTRIAL AREAS?

8. HOW WOULD A COOPERATIVE PROGRAM SUCH AS THIS OPERATE?

9. PLEASE PROVIDE THE NAME AND ADDRESS OF THE PRINCIPAL REPRESENTATIVE WHO WOULD COORDINATE THE BRAZILIAN ENERGY CONSERVATION EFFORT IN INDUSTRY.

C. TRANSPORTATION ENERGY CONSERVATION

1. ARE THE BRAZILIANS INTERESTED IN ANY AREAS OTHER THAN ALCOHOL FUELS UTILIZATION IN TRANSPORTATION?

2. IF ALCOHOL UTILIZATION IS THEIR ONLY AREA OF INTEREST, WOULD IT BE ACCEPTABLE TO THE BRAZILIANS TO INCLUDE IT UNDER THE BIOMASS ACTIVITY?

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3. IS IT POSSIBLE TO OBTAIN A COPY OF THE STUDY MADE BY THE BRAZILIAN PROMON TECHNOLOGY CENTER FOR FINIP ON ALCOHOL?

4. PLEASE PROVIDE INFORMATION ON ANY WORK ON METHANOL IN BRAZIL.

US/DOE CONTACTS FOR THE VARIOUS ENERGY COOPERATION AREAS
ARE:

COAL MINING -- WILLIAM B. SCHMIDT
COAL PROCESSING -- WILLIAM B. SCHMIDT
COAL CONVERSION -- MARTIN NEUWORTH

PRODUCTION OF ALCOHOL FROM BIOMASS -- DR. ROSCOE WARD
TRANSPORTATION CONSERVATION -- VINCENT ESPOSITO/
EUGENE ECKLUND
INDUSTRIAL CONSERVATION -- DOUGLAS G. HARVEY VANCE

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